IN THE CLAIMS:

There are no claim amendments. This listing is provided for the convenience of the Examiner.

- 1. (previously presented) A microarray of oligonucleotides, said microarray comprising a plurality of HLA Class I oligonucleotide probes on a solid support, said probes having a surface density on said microarray of from about 250 to about 450 angstrom²/molecule, wherein said plurality of probes comprises at least 80% of polymorphisms in the HLA Class I locus, and wherein said oligonucleotide probes are covalently attached to said support and have from 17 to 23 nucleotides.
- 2. (previously presented) A microarray in accordance with claim1, wherein said plurality of probes comprises at least 90% of polymorphisms in the HLA Class I locus.
- 3. (previously presented) A microarray in accordance with claim 1, wherein said plurality of probes comprises at least 98% of polymorphisms in the HLA Class I locus.
 - 4. (cancelled)
- 5. (previously presented) A microarray in accordance with claim 4, wherein said oligonucleotide probes have 20 nucleotides.
- 6. (previously presented) A microarray in accordance with claim 1, wherein said HLA Class I oligonucleotide probes are selected from the group consisting of HLA-A oligonucleotide probes, HLA-B oligonucleotide probes and HLA-C oligonucleotide probes.
- 7. (previously presented) A microarray in accordance with claim 1, wherein said HLA Class I oligonucleotide probes are selected from the group consisting of HLA-A exon 2 and exon 3 oligonucleotide probes, HLA-B exon 2 and exon 3 oligonucleotide probes and HLA-C

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exon 2 and exon 3 oligonucleotide probes.

- 8. (previously presented) A microarray in accordance with claim 1, wherein said HLA Class I oligonucleotide probes are selected from the group consisting of HLA-B exon 2 and exon 3 oligonucleotide probes.
- 9. (previously presented) A microarray in accordance with claim 1, wherein said solid support is a glass slide.
- 10. (previously presented) A microarray in accordance with claim 1, wherein said oligonucleotide probes are present on said solid support at a surface density of from 250 to 450 angstrom²/molecule.
- 11. (previously presented) A microarray in accordance with claim 4, wherein said oligonucleotide probes are present on said solid support at a surface density of from about 325 to about 375 angstrom²/molecule.

12.-17. (cancelled)

- 18. (withdrawn) A method of HLA Class I tissue typing, said method comprising:
- (a) amplifying exons 2 and 3 from a genomic sample of tissue using labeled primers and an asymmetric PCR method to form a labeled, single-stranded DNA sample;
- (b) contacting said labeled, single-stranded DNA sample with the microarray of claim 1 under hybridization conditions; and
- (c) detecting a hybridization pattern for said DNA sample and assigning an HLA Class I allele type by analysis of said hybridization pattern.
 - 19. (withdrawn) A method of HLA tissue typing, said method comprising:
- (a) selectively amplifying the HLA regions in a genomic sample using asymmetric PCR and labeled primers to form a labeled, single-stranded DNA sample;

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- (b) contacting labeled, single-stranded DNA sample with the microarray of claim 1 under hybridization conditions; and
- (c) detecting a hybridization pattern for said DNA sample and assigning an HLA allele type by analysis of said hybridization pattern.

20. (cancelled)

- 21. (previously presented) The microarray of claim 6, wherein said HLA-A oligonucleotide probes comprise at least 86 polymorphisms.
- 22. (previously presented) The microarray of claim 6, wherein said HLA-B oligonucleotide probes comprise at least 185 polymorphisms.
- 23. (previously presented) The microarray of claim 6, wherein said HLA-C oligonucleotide probes comprise at least 45 polymorphisms.
- 24. (previously presented) The microarray of claim 7, wherein said HLA-B exon 2 oligonucleotide probes comprise at least 68 polymorphisms, and wherein said HLA-B exon 3 oligonucleotide probes comprise at least 70 polymorphisms.
- 25. (previously presented) An array of oligonucleotides on a solid support, wherein said oligonucleotides comprise locus polymorphisms of the HLA Class I region, said oligonucleotides having a surface density on said array of from 250 to 450 angstrom²/molecule, and wherein said oligonucleotides are covalently attached to said solid support and have from 17 to 23 nucleotides.
- 26. (previously presented) The array of claim 25, wherein said locus polymorphisms are HLA-A locus polymorphisms or HLA-C locus polymorphisms.
 - 27. (previously presented) The array of claim 25, wherein said locus polymorphisms

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are HLA-B locus polymorphisms.

- 28. (previously presented) The array of claim 25, wherein said locus polymorphisms are selected from the group consisting of: HLA-B locus exon 2 polymorphisms and HLA-B locus exon 3 polymorphisms.
- 29. (previously presented) The array of claim 26, wherein said HLA-A locus polymorphisms comprise at least 86 HLA-A locus polymorphisms.
- 30. (previously presented) The array of claim 26, wherein said HLA-C locus polymorphisms comprise at least 45 locus polymorphisms.
- 31. (previously presented) The array of claim 27, wherein said HLA-B locus polymorphisms comprise at least 185 HLA-B locus polymorphisms.
- 32. (previously presented) The array of claim 28, wherein said HLA-B exon 2 locus polymorphisms comprise at least 68 HLA-B locus exon 2 polymorphisms, and wherein said HLA-B locus exon 3 polymorphisms comprise at least 70 HLA-B locus exon 3 polymorphisms.
- 33. (previously presented) The array of claim 25, wherein said oligonucleotides have 20 nucleotides.
- 34. (previously presented) The array of claim 25, wherein said solid support comprises glass.
- 35. (previously presented) The array of claim 25, wherein said oligonucleotides further comprise a linking group, and wherein said linking group is a 15-mer.
 - 36. (previously presented) The array of claim 35, wherein said 15-mer is a 15-mer of

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poly-dT.

37.-50. (cancelled)

- 51. (previously presented) A microarray in accordance with claim 1, wherein said oligonucleotide probes are present on said solid support at a surface density of from 325 to 375 angstrom²/molecule.
- 52. (previously presented) A microarray in accordance with claim 1, wherein said oligonucleotide probes are covalently attached to said support with a linking group comprising an aminoalkylsilane and a phenylenediisothiocyanate, and wherein said microarray comprises spots of oligonucleotide probes ranging from 100 to 150 microns in diameter.
- 53. (previously presented) A microarray in accordance with claim 52, wherein said spots of oligonucleotide probes are spaced with 400-500 microns separating the center of each of said spots.
- 54. (previously presented) A microarray in accordance with claim 52, wherein said phenylenediisothiocyanate is 1,4-phenylenediisothiocyanate.
- 55. (previously presented) The array of claim 25, wherein said oligonucleotides are present on said solid support at a surface density of from 325 to 375 angstrom²/molecule.
- 56. (previously presented) The array of claim 25, wherein said oligonucleotides are covalently attached to said support with a linking group comprising an aminoalkylsilane and a phenylenediisothiocyanate, and wherein said array comprises spots of oligonucleotides ranging from 100 to 150 microns in diameter.

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- 57. (previously presented) The array of claim 56, wherein said spots of oligonucleotides are spaced with 400-500 microns separating the center of each of said spots.
- 58. (previously presented) The array of claim 56, wherein said phenylenediisothiocyanate is 1,4-phenylenediisothiocyanate.